

## 植物研究雜誌

## THE JOURNAL OF JAPANESE BOTANY

第十三卷 第五號 (通卷第二百二十九號) 昭和十二年五月發行

日本領内ノすはまさう *Hepatica* 屬植物 (其二)

中井 猛之進

T. NAKAI. Japanese *Hepatica* (II)(七) 邦産 *Hepatica* 屬植物ノ種名檢索表

- 1 葉ハ二年生厚味アリテ越年シタモノハ剛シ。.....2  
 1 葉ハ一年生ナル爲メ初冬ニハ枯死ス。.....4  
 子房ハ始メヨリ無毛、瘦果ハ長サ 5-6 mm 葉ハ大キク幅 10-12 (8-15) cm アリ。花  
 ハ前年ノ葉ト今年ノ葉トノ 延ビタル 間ニ開ク、總苞片ハ長サ 10-25 mm 幅 6-20  
 mm アリ。.....おほすはまさう (中井) 鬱陵島ノ特産  
 2 } *Hepatica maxima* NAKAI 鬱陵島植物調査書 19, 35 頁 (1919 年)  
 異名 *Anemone maxima* NAKAI 植物學雜誌第 31 卷 27 頁 (1917 年)  
 子房ニ絹毛アリ。瘦果ニ毛アリ長サ 3-4 mm 葉ハ幅 2.4-7.3 cm 花ハ前年ノ葉ト共  
 ニアリ花終リテ後ニ今年ノ葉ガ伸長ス。總苞片ハ長サ 4-10 mm 幅 2.5-6 mm.  
 .....3  
 葉ノ裂片ノ先ハ微尖又ハ鈍、總苞片ノ先モ微尖又ハ鈍、萼片ハ長橢圓形。  
 .....すはまさう、本島ノ中部、北部、佐渡ノ産。  
 3 } *Hepatica nobilis* SCHREBER var. *nipponica* NAKAI.  
 葉ノ裂片ノ先ハ銳形、總苞片ノ先ハ銳尖、萼片ハ狹長橢圓形。  
 .....みすみさう、本島ノ中部ヨリ九州北部ニ至ル。  
*Hepatica nobilis* SCHREBER var. *japonica* NAKAI.  
 瘦果ハ長サ 2-2.5 mm 葉ノ幅ハ 2.5-4.5 (1.5-5.0) cm 表面ニハ白斑アリ。裏面ハ  
 淡綠色、花ハ今年ノ若葉ノ開ケルモノト共ニ開ク。萼片 5 個、長サ 9-10 mm.  
 .....ひめすはまさう (中井)、南朝鮮ノ諸島。  
 4 } *Hepatica insularis* NAKAI.  
 瘦果ハ長サ 4 mm 葉ノ幅ハ 6.0-7.0 (2.5-9.5) cm 表面ハ深綠色ニシテ斑ナキカ又ハ

斑アリ、裏面ハ淡綠色、花ハ葉ヲ伴ハズ。萼片ハ 7-11 個、長サ 12-14 mm.

.....満鮮すはまさう。(中井)、南滿洲、朝鮮半島。

*Hepatica asiatica* NAKAI.

Any varieties just coinciding to those of European *Hepatica nobilis* or of American *Hepatica americana* and *H. acutiloba* do not exist in Far East. Manchurian and Korean *Hepatica* has annual leaves, and is a new species *Hepatica asiatica*. *Hepatica maxima* of Dagelet Island has glabrous ovules and big achenes, and the flowers accompany with the leaves of both last year and current year. Japanese *Hepatica* is nearer to the European than to the Americans. It differs, however, from the former with its smaller and fewer leaves, less hairy leaves and peduncles. There are two distinct varieties in the Japanese *Hepatica*; they should be called *Hepatica nobilis* var. *nipponica* and var. *japonica* respectively. One more species grows in the Korean Archipelago; its leaves are annual, but they develop with the flowers, the achenes are very small. Its name is *Hepatica insularis*. These Japanese and Koreano-Manchurian species and varieties of *Hepatica* are distinguished as shown in the following key.

- 1 { Folia biennia. .... 2
  - { Folia mere annua, vel primo hiemis jam emarcida. .... 4
    - { Ovaria ab initio glaberrima. Achenia 5-6 mm longa. Folia maxima 10-12 (8-15) cm lata. Folia cum foliis biennibus e. annuis. Involucri phylla 10-25 mm longa 6-20 mm. lata.
      - .....*Hepatica maxima* NAKAI, Veget. Dagelet Isl. 19 & 35 (1919).
- 2 { { *Anemone maxima* NAKAI in Tokyo Bot. Mag. XXXI, 27 (1917)}
  - Habitat in Isl. Dagelet.
  - Ovaria sericea. Achenia pilosa 3-4 mm longa. Folia in speciminibus Japonensibus 2.5-7.3 cm lata. Flores præcoces, vel cum foliis biennibus tantum. Involucri phylla 4-10 mm longa 2.5-6 mm lata. .... 3
- 3 { Foliolorum lobi acutiusculi—obtus. Involucri phylla obtusa vel acuta. Sepala oblonga.
  - { Folia supra viridia subtus viridula.
    - ....*Hepatica nobilis* SCHREBER var. *nipponica* NAKAI f. *typica* NAKAI.
    - Habitat in Hondo media et bor., Isl. Sado.
  - { Folia supra variegata subtus viridula.
    - ....*Hepatica nobilis* SCHREBER var. *nipponica* NAKAI f. *variegata* NAKAI.

{*Hepatica triloba* var. *obtusa* f. *variegata* MAKINO subf. *concolor*}  
 {MAKINO. Journ. Jap. Bot. VI no. 8, 17 (1929).}  
 Habitat in Hondo.

Folia supra variegata subtus purpurea.

.....*Hepatica nobilis* SCHREBER var. *nipponica* NAKAI f. *hypopurpurea* NAKAI.

(*Hepatica triloba* var. *obtusa* f. *variegata* subf. *hypopurpurea* MAKINO l. c.)

Habitat in Hondo

Foliorum lobi acuti. Involucris phylla acuminata. Sepala lineari-oblonga.

*Hepatica nobilis* SCHREBER var. *japonica* NAKAI

{*Anemone Hepatica* L. var. *acuta* (non PRITZEL) MAKINO}  
 {*Hepatica triloba* CHAIX var. *acuta* (non PURSH) MAKINO}

Habitat in Hondo & Kiusiu.

Achenia 2-2.5 mm longa. Folia 2.5-4.5 (1.5-5.0) cm lata supra variegata subtus viridula. Flores cætanee. Sepala 5, 9-10 mm longa.

*Hepatica insularis* NAKAI

Habitat in Archipelagine Koreano.

4 { Achenia 4 mm longa. Folia 6.0-7.0 (2.5-9.5) cm lata supra viridissima vel variegata, subtus viridula vel parce purpurascens. Flores præcoces. Sepala 7-11, 12-14 mm longa.

*Hepatica asiatica* NAKAI.

Habitat in Korea & Manshuria.

***Hepatica nobilis* SCHREBER**, Spicileg. Fl. Lipsic. 39 (1771); SCHRANK, Baiers. Fl. 75 (1789); MOENCH, Method. 216 (1794), etc.

var. ***japonica* NAKAI**, var. nov.

Syn. *Anemone Hepatica* L. var. *acuta* (non PRITZEL) MAKINO in Tokyo Bot.

Mag. XI, [302] (1897); MATSUMURA, Ind. Pl. Jap. II pt. 2, 103 (1912).

*Hepatica acutiloba* (non DE CANDOLLE) YATABE, Nippon Shokubutuhon I, 34 (1900).

*Anemone hepatica* subsp. *rotundata* var. *rotundata* ULBRICH in ENGLER, Bot. Jahrb. XXXVII, 271 (1906), pro parte.

*Anemone Hepatica* (non LINNÆUS) MAKINO & NEMOTO, Fl. Jap. ed. I, 961 (1925), pro parte.

*Hepatica triloba* CHAIX β. *acuta* WOOD apud MAKINO, Journ. Jap. Bot. VI no. 8, 17 (1929); MAKINO & NEMOTO, Fl. Jap. ed. 2, 330 (1931);

NEMOTO, Suppl. 223 (1936).

*Hepatica triloba* CHAIX var. *acuta* PURSH apud MAKINO, Shokubutu

Dzūkwan ed. 11, 485 fig. 936 (1935).

Foliorum lobi quam var. *acutiuscula* {*Anemone Hepatica* var. *acutiuscula* PRITZEL in Linnæa XV, 690 (1841)} acutiores et flores minores sunt. Ex *Hepatica acutiloba*, foliis minoribus minus incis, petiolis et scapis juventute minus et brevius pilosis, sepalis angustioribus facile sejuncta.

Nom. Jap. *Sankakusô* (IWASAKI); *Misumisô* (IINUMA).

Hab. in

Kyusyu: Prov. Tikuzen; oppido Hôshuyama-mura (Y. NABESIMA, typus in Herb. Univ Imp. Tokyo).

Hondo: Prov. Ise: in area saneta templi Ise-Zingû (M. Honda); in monte Simadjiyama (T. NAKAI).

***Hepatica insularis* NAKAI, sp. nov.**

Syn. *Anemone Hepatica* (non LINNÆUS) NAKAI, Veget. Isl. Quelpært 45 no. 605 (1914).

*Hepatica acutiloba* (non DE CANDOLLE) MORI, Enum. Cor. Pl. 158 (1922), quoad pl. ex Quelpært.

Proxima ad *Hepatica nobilis* v. *minor* BECK, sed folia annua, supra variegata, subtus viridia; flores cum foliis annuis cætanei.

Caudex perennis radices fibrosas elongatas dense emittit. Folia annua sub anthesin floribus fere æquilonga vel 2-3 plo breviora. Petioli 4-11 cm longa 1-1.3 mm lata patentim albo-barbati. Folia æquale triloba, lobis ovatis vel ovato-rotundatis apice obtusiusculis, lobo terminale ex apice petioli 11-24 mm longo, lobis lateralibus 9-23 mm longis, supra intense viridia inter costam et margines longitudine albo-variegata facie toto sericeo-pilosella, subtus viridula sericeo-hirtella. Scapi 7.5-12 cm longi patentim sericeo-barbati. Involueri phylla 3 ovata vel ovato-oblonga 5-6 mm longa 3-4 mm lata sericeo-pilosella. Sepala 5 anguste oblonga carnea 9-10 mm longa 2.5-3 mm lata. Ovaria sericea. Achenia ovoidea 2-2.5 mm longa pilosella stylis 1 mm longis terminantia.

Nom. Jap. *Hime-Suhamasô*.

Hab. in Archipelagine Koreano.

Quelpært: in silvis montis Hallasan 1200 m (T. NAKAI, Maio 10, 1913, typus in Herb. Univ. Imp. Tokyo); in silvis lateralis borealis montis Hallasan 800 m (T. NAKAI, no. 4926, Oct. 31, 1917); in silvis montis Hallasan 1500 m (U. FAURIE no. 1717, Maio 1907); in silvis Hallasan (E. TAQUET no. 2588, Apr. 1909); in silvis 600 m (E. TAQUET no. 4545, Apr. 1908).

Prov. Zennan: in herbicetis insulæ Titô (T. NAKAI no. 9657, Jun. 19, 1921); in silvis insulæ Settô (T. NAKAI no. 9658, Jul. 26, 1921).

Prov. Keinan: in fruticetis Gakenri insulæ Kyosaitô (T. NAKAI no. 11170, Maio 3, 1928).

***Hepatica asiatica* NAKAI, sp. nov.**

Syn. *Anemone Hepatica* (non LINNÆUS) BAKER & MOORE in Journ. Linn. Soc.

XVII, 375 (1879); FORBES & HEMSLEY in Journ. Linn. Soc. XXIII, 11 (1886), saltem pro parte; PALIBIN in Acta Horti Petrop. XVII, 15 (1899); KOMAROV in Acta Hort. Petrop. XXII, 268 (1903); NAKAI, Fl. Kor. I, 18 (1909), II 428 (1911), Veget. Diamond Mts 172 (1918),

*Anemone hepatica* subsp. *rotundata* var. *rotundata* ULBRICH in ENGLER.

Bot. Jahrb. XXXVII, 271 (1906), excl. pl. Europ. & Jap.

*Anemone hepatica* (non L.) KOMAROV & KLOBUKOVA-ALISOVA, Key Pl. Far East. Reg. USSR, I 536 (1931).

*Hepatica nobilis* TREW in BLACKWELL, Cent. III t. 207 (1757); NAKAI, Veget. Koryo Experim. Forest 34 no. 272 (1932).

Caudex perennnis ascendens 1–3 cm longa 1–pluriceps, radices fibrosas elongatas multas emittit apice cum petiolis emortuis fibrosa, squamis amplis 7–25 mm longis albidis vel fusciscentibus imbricatis pilosellis coronata. Folia omnia radicalia, mere annua vel imprimo hiemis emareida; petioli 8–18 cm longi pilis sericeis albis 2.5–3 mm longis patentim barbellati; laminæ supra viridissimæ subtus viridula ad medium æqualiter trilobata, imprimo tamen lobis involutis erectis ita paginæ inferiores exteriores et dense sericeo-barbata, intus adpresse pilosellæ, lobis latissime ovatis, aliis obtusiusculis, aliis acutis; laminæ adultæ ex apice petioli ad apicem 30–40 (15–52) mm longæ 60–70 (25–65) mm latæ. Flores præcoces. Scapi in quaque gemma 1–6, 60–110

mm longi patentim barbellati. Involueri phylla 3 vulgo sub flores posita sed rarissime aperta subæqualia oblonga 7-11 mm longa 3-5 mm lata obtusa vel acuta, sericea. Sepala 7-11 lineari-oblonga vel oblonga obtusa 12-14 mm longa 4-6 mm lata, carnea vel violacea. Stamina numerosa 2-6 mm longa glabra, antheris parvis laterali longitudine dehiscentibus 0.7 mm longis, connectivo haud producto. Ovaria sericea. Achenia sericea ovoidea 4 mm longa apice stylis subhamatis terminantia.

Formæ tres adsunt.

*Hepatica asiatica* forma **acutiloba** NAKAI.

Foliorum lobi et involueri phylla acuta. Folia non variegata.

Hab. in Korea.

Prov. Keiki : in silvis Kôryô (R. TAKAGI, Apr. 12, 1929, typus florum in Herb.

Univ. Imp. Tokyoensis; T. NAKAI, Apr. 26, 1913, fruct. immat.); in monte Hokkanzan, (T. Utiyama, Jul. 28, 1902, Steril.; N. OKADA, Apr. 28, 1912, fl. et fr., typus fructuum in Herb. Univ. Imp. Tokyoensis; T. ISIDOYA no. 52, Maio 2, 1922, fl.).

Prov. Kannan : Vallis Sodegui-muri (V. KOMAROV no. 692, Aug. 26, 1897, steril.)

*Hepatica asiatica* forma **obtusiloba** NAKAI.

Foliorum lobi et involueri phylla obtusa vel obtusiuscula. Folia non variegata.

Hab. in Korea.

Prov. Keiki : Hüt-Schu-Miau in Seoul (A. SONTAG, Maio 1, 1897, fl.); insula Hôtô (Y. HANABUSA).

Prov. Kôkai : in silvis Tyôzankwan (T. NAKAI no. 12775, Jul. 27, 1929).

Prov. Kôgen : in monte Kongôsan (T. NAKAI, no. 5411, Jul. 31, 1916, Steril.; M. KOBAYASI no. 66, Aug. 5, 1932, steril.); in monte Setugakusan (T. NAKAI no. 17396, 17397, Jul. 19, 1936 steril.).

Prov. Kannan : in monte Genzan (T. NAKAI, Jul. 9, 1909, fruct.).

*Hepatica asiatica* forma **variegata** NAKAI.

Foliorum lobi acuti. Folia supra albido-variegata.

Hab. in Korea.

Prov. Kôgen : in monte Setugakusan (T. NAKAI no. 17398, Jul. 20, 1936, fruct.).

Distr. sp. Korea, Manshuria austr. et Ussuri.

By this chance, I shall add here a new species of *Hepatica* belonging to the *transsilvanica* group.

*Hepatica* sect. **Angulosa** (ULBRICH) NAKAI, comb. nov.

Syn. *Anemone* Sect. *Hepatica*

Series *Angulosa* ULBRICH in ENGLER, Bot. Jahrb. XXXVII, 213 et 271 (1906).

Folia 3-5 lobata, lobis serratis vel incis. vel incisis.

Species 4 sequentes huc pertinent.

Typus: *Hepatica transsilvanica* FUSS, Verhand. & Mitteil. Siebensb. Verein Naturwiss. Hermannstadt I, 83 (1850).

{*Anemone transsilvanica* HEUFFEL in Verh. Zool.-Bot. Gesells. Wien VIII, 42 (1858)}

*Hepatica Falconeri* STEWARD in Rhodora XXIX, 53 (1927).

{*Anemone Falconeri* THOMSON ex W. J. HOOKER, Icon. Pl. IX, t. 899 (1852)}.

*Hepatica Henryi* STEWARD, l.c.

{*Anemone Henryi* OLIVER in HOOKER, Icon. Pl. XVI, t. 1570 (1887)}

*Hepatica Yamatutai* NAKAI, sp. nov.

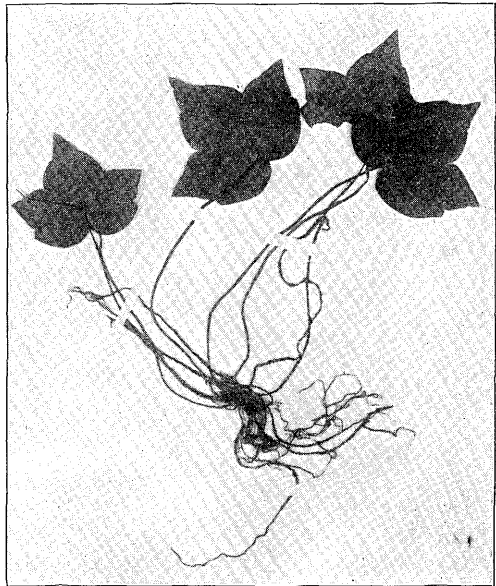


Fig. 14. 支那四川省峨眉山ノ産 *Hepatica Yamatutai* NAKAI (實物ノ 1/3 大)

***Hepatica Yamatutai* NAKAI, sp. nov. (Fig. 14).**

Caudex perennis radices fibrosas tomentosas emittit. Folia omnia radicalia; petioli 10-12 cm longi patentim hirtelli. Lamina ad medium trilobata, ex apice petioli ad apicem lobi mediani 25-35 mm longa, inter extremities loborum lateralium 52-67 mm lata, supra viridis sparsim erecto-pilosa, sub-

tus viridula sparse erecto-hirtella, margine ciliolata, basi segmentis lateralibus rotundatis et subimbricatis, lobis medianis latissime ovato-acuminatis utrinque 1-dentatis, lobis lateralibus latere exteriori mucronato-1-dentatis, apice acutissimis. Gemmarum squamæ 10-12 mm longæ villosæ. Flores et fructus nostris ignoti.

Arcte affinis *H. Henryi* sed folia trilobata, minus pilosa, et lobi utrinque breve 1-dentati apice aceriores.

Habitat in China.

Prov. Szechuan: in monte Omei 峨眉山 (KADZUMI YAMATUTA, anno 1910, typus in Herb. Univ. Imp. Tokyoensis).

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